

Fig. 1

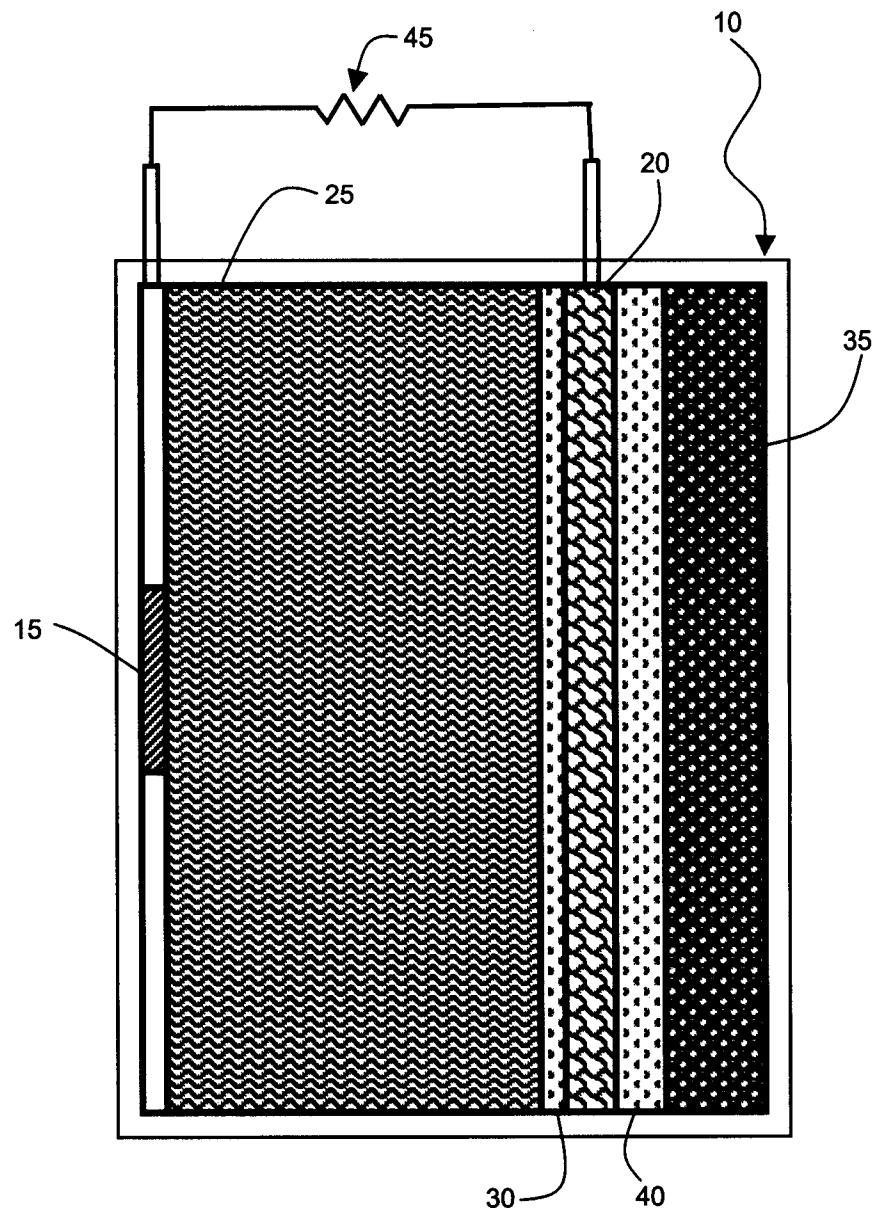


Fig. 2

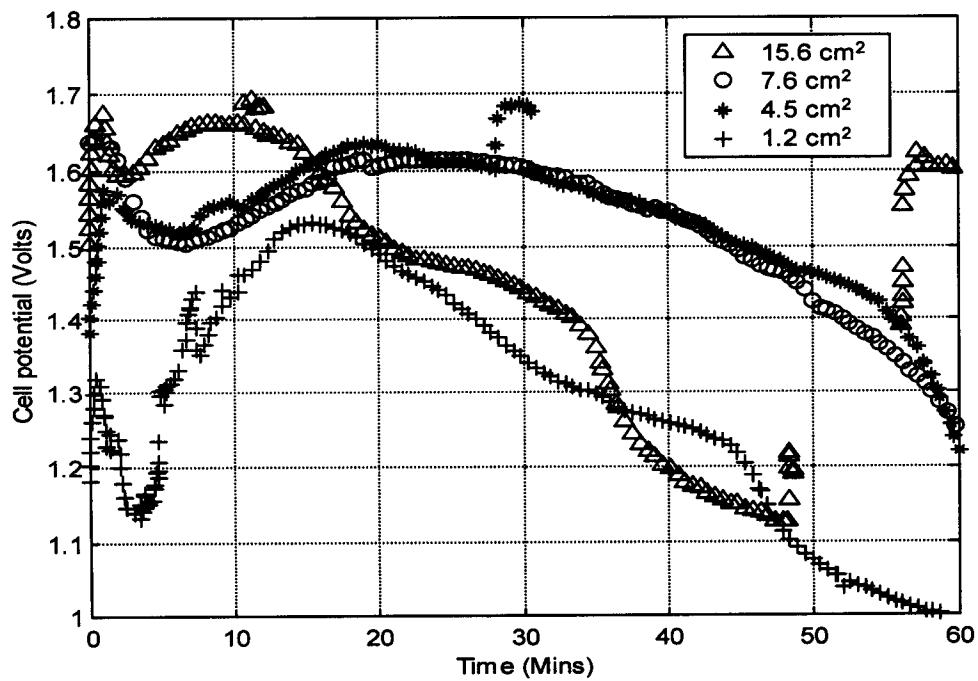


Fig. 3

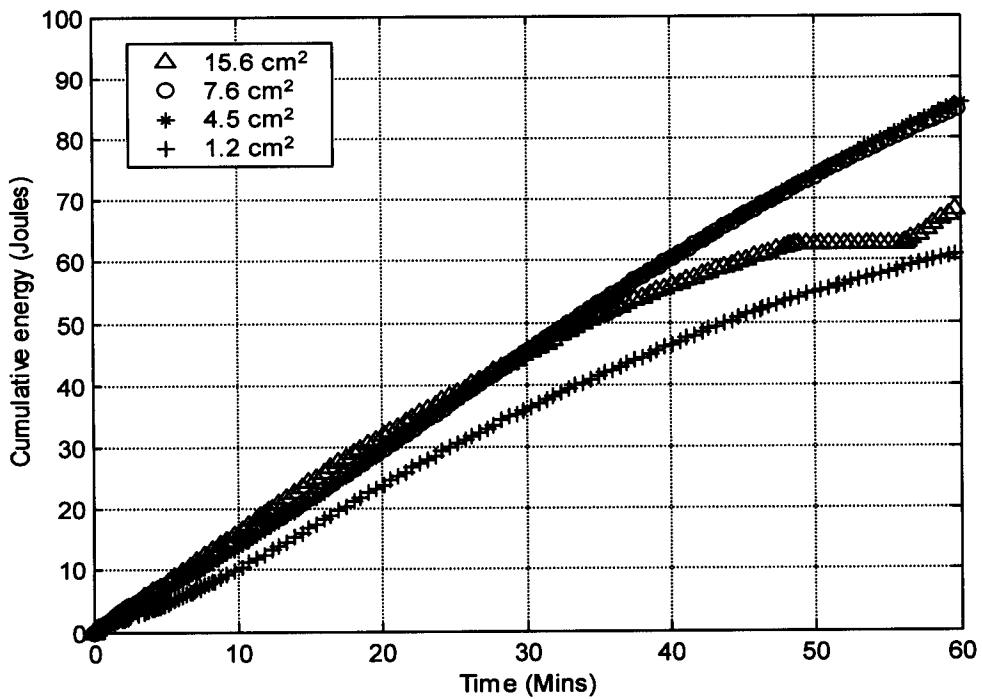


Fig. 4

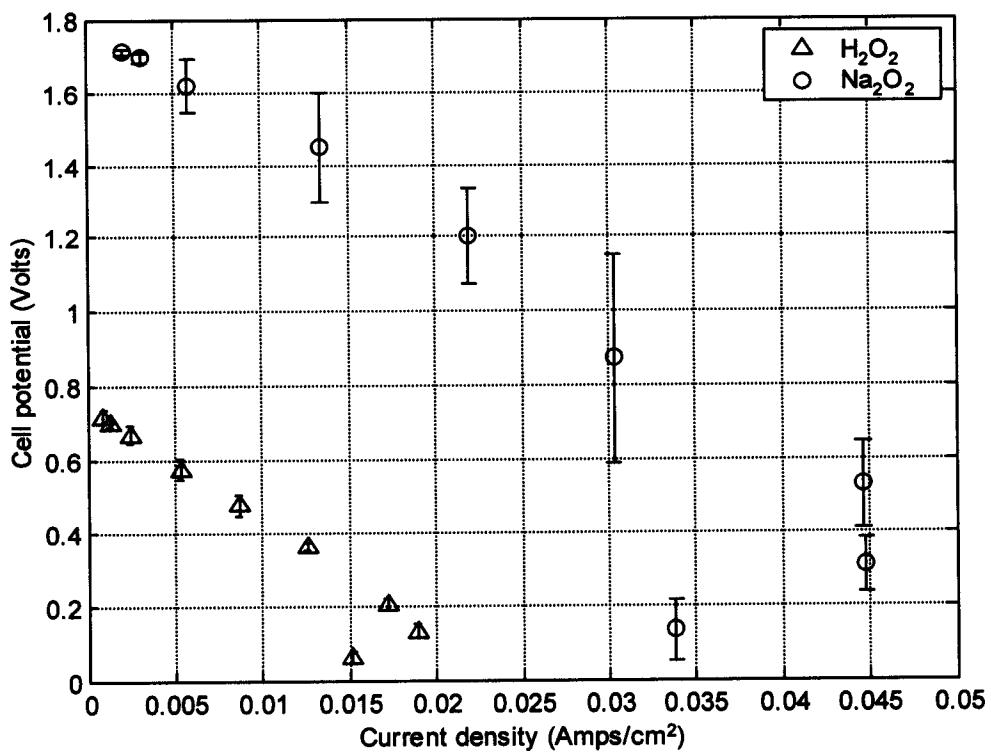


Fig. 5

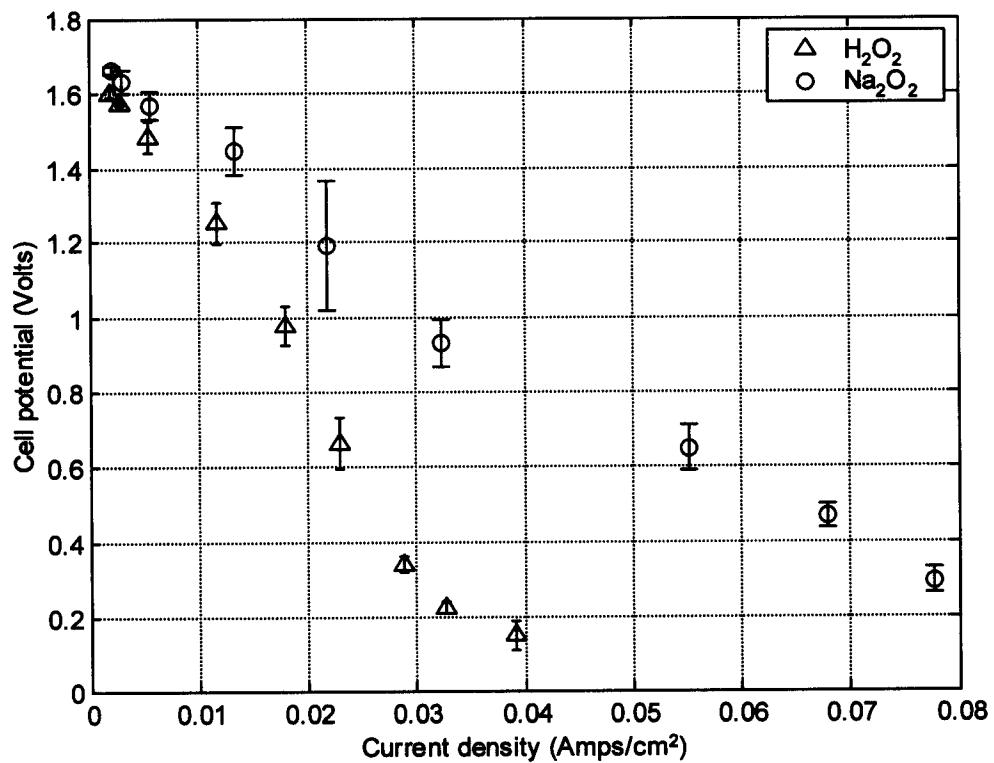


Fig. 6

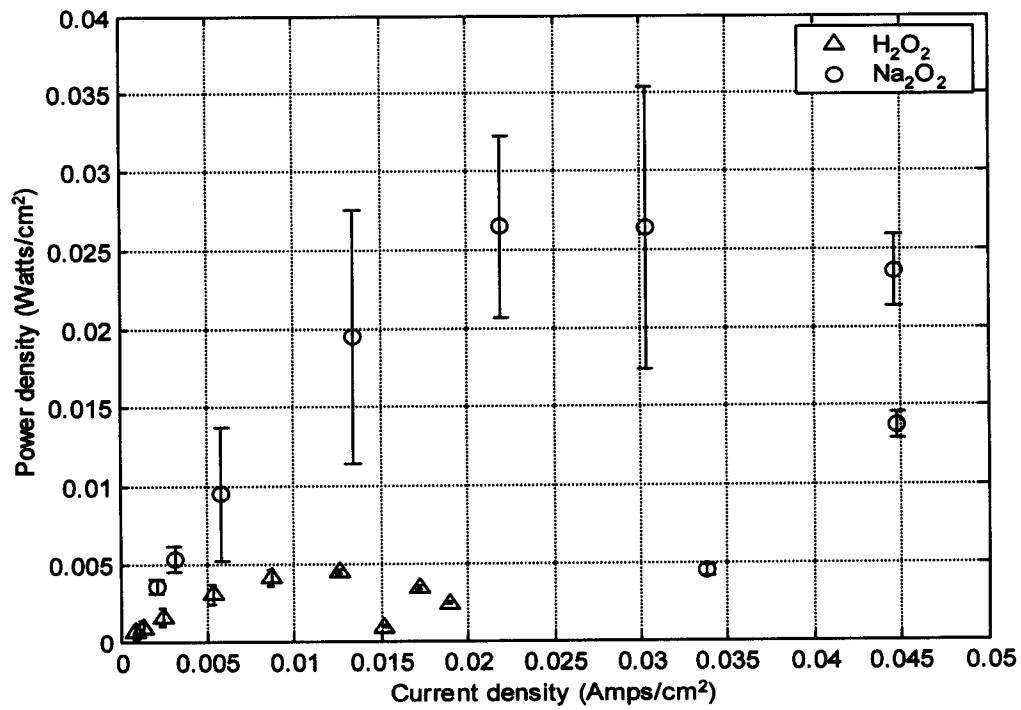


Fig. 7

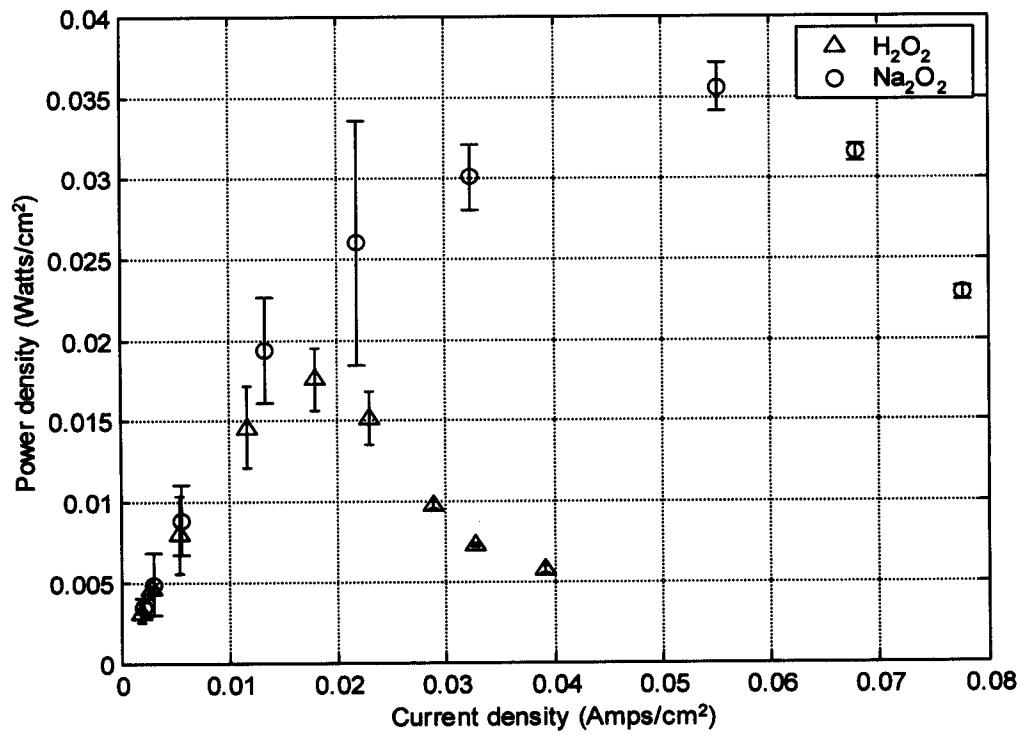


Fig. 8

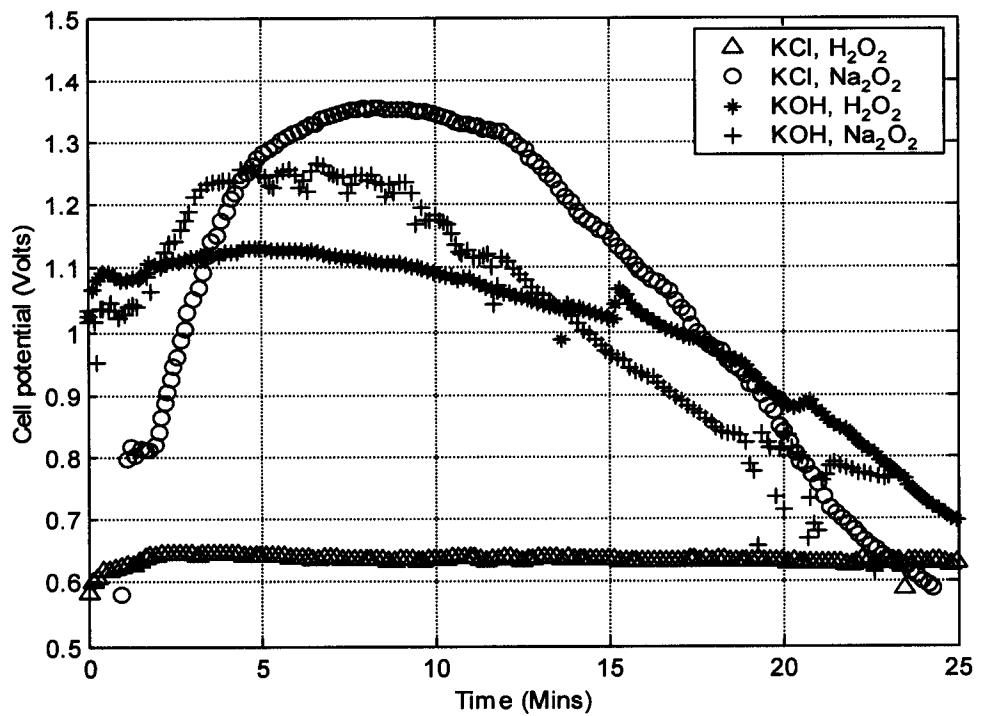


Fig. 9

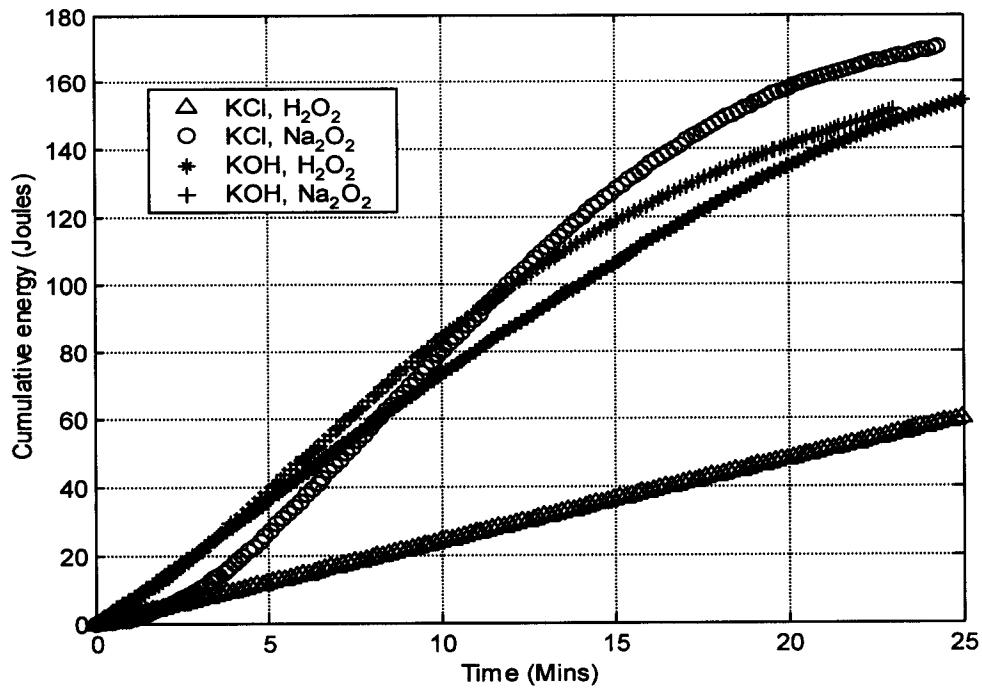


Fig. 10

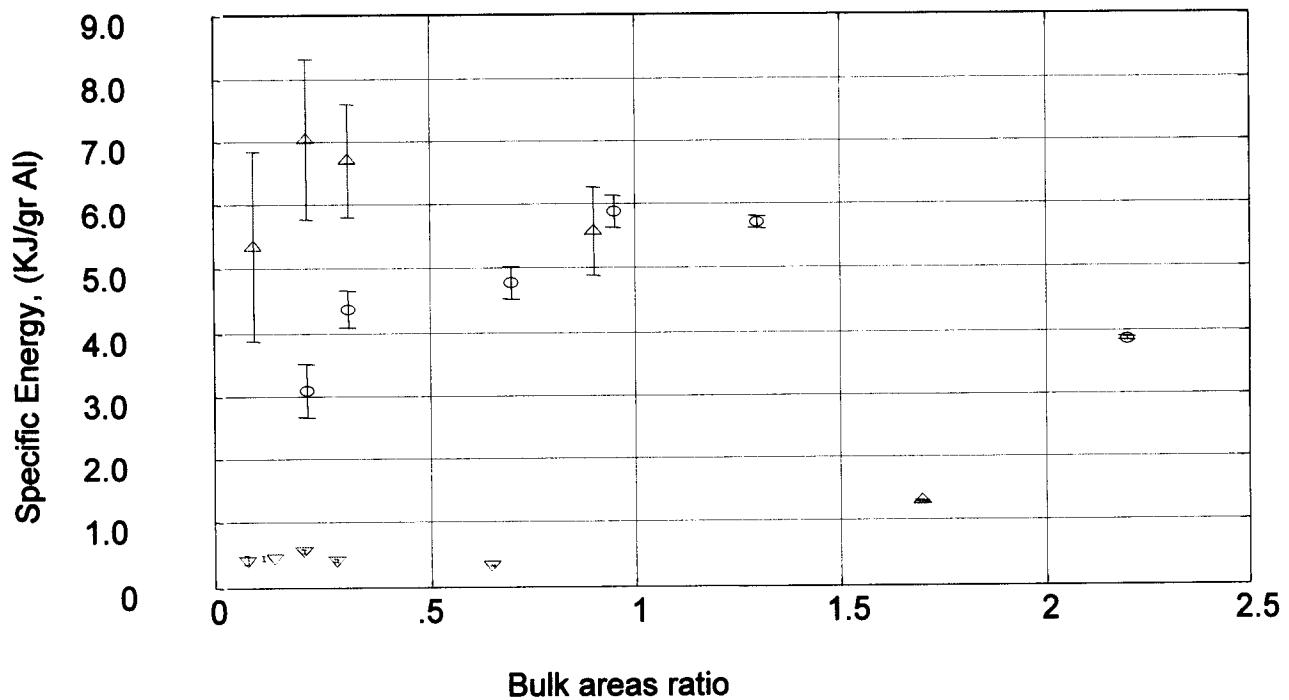
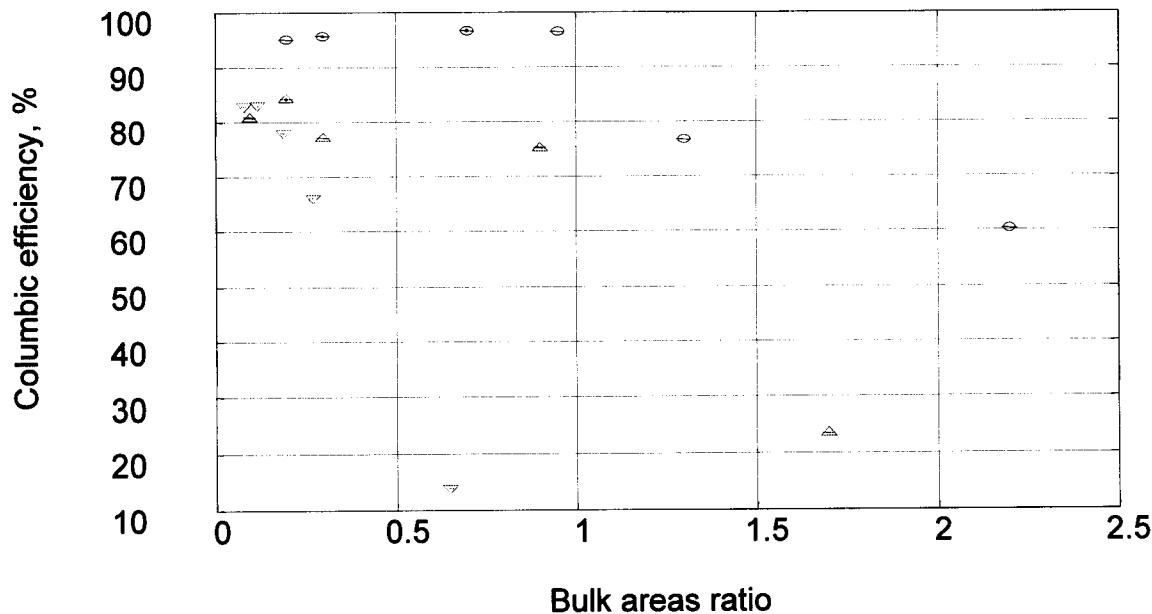


Fig. 11



$$\begin{aligned}
 \text{Coulombic Efficiency} &= \left(\frac{Q_p^{\text{Experimental}}}{Q_p^{\text{Theoretical maximum}}} \right) 100 \\
 &= \left\{ \frac{\int_0^t (I_{\text{exp}}(t)) dt}{\left(\frac{x \text{ gr Al}}{26.98 \text{ gr Al / Al mole}} \right) \left(\frac{3 \bar{e} \text{ mole}}{\text{Al mole}} \right) \left(\frac{96500 \text{ C}}{\bar{e} \text{ mole}} \right)} \right\} 100
 \end{aligned}$$